

APOLLO



Key Features

- Thermally Advantaged MicroTower
- nVidia® Quadro® NVS 210S GPU
- nVidia® nForce™ 430 MCP
- AMD Athlon™ 64 X2 Processor (CSIP)
- 8 GB/sec HyperTransport™ Technology
- Dual Channel DDR2 SDRAM
- AMD Cool 'n' Quiet™ Technology
- nVidia® Unified Stable Image
- Integrated nVidia® nForce™ Gigabit Lan Connectivity
- nVidia® MediaShield™ Storage Technology
- Integrated 6-Channel (5.1) High Definition Audio
- Trusted Platform Module (TPM) v1.2
- Front Panel USB 2.0 Ports and Audio Connections
- 270 Watt Power Supply
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

Apollo Series Workstation

The Apollo Series CK2-A297, in a space-saver MicroTower design, intrinsically transcends commercial business infrastructure IT necessities from one of TCO and acquisition costs as value-add persuasive arguments to one of paramount imperative. As the new altered reality of soaring operational and management costs continues to dog organizational logistic budgets, counterbalancing performance with a reliable, stable, and manageable system is manifest in the Apollo's AMD Commercial Stable Platform (CSIP) processors, including AMD's next generation Athlon™ 64 X2 Dual-Core Processor, and nVidia's Unified Stable Image. Replete with a full suite of nVidia's "Value-add" features such as: integrated nForce™ Gigabit LAN, MediaShield™ Storage Technology, and Quadro® NVS 210S graphics, this Apollo Series further compounds business desirability with its resident security and encryption functionality and support for Attestation and signature keys protection, which are key on-chip features inherent to the its Trusted Platform Module. With the comprehensive Apollo Series CK2-A297, full cycle deployment and manageability costs are once again economically feasible.



Model CK2-A297

Apollo Series Workstation

Processor

AMD Athlon™ 64 X2 Dual-Core Processor 4200+ to 5200+
AMD Athlon™ 64 Processor 3500+ to 3800+
AMD Sempron™ Processor 3400+ to 3800+
AMD Direct Connect Architecture w/ Simultaneous 32-bit & 64-bit Computing
8 GB/sec HyperTransport™ Technology
AMD Commercial Stable Image Platform (CSIP) Processors
AMD Socket AM2 Modules

Chipset

nVidia Quadro® NVS 210S Graphics Processing Unit (GPU)
nVidia nForce™ 430 Media and Communications Processor
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

BIOS

4 Mbit Flash EEPROM
Award® PCI BIOS - DMI 2.0, WfM 2.0, Plug & Play,
Award® JumperFree Trend® ChipAway Virus
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b
PC '01 Compliant

Cache

AMD Sempron™ & Athlon™ 64 Processor
64KB 2-Way Associative ECC-Protected Level 1 Data Cache
64KB 2-Way Associative Parity-Protected Level 1 Instruction Cache
256 KB or 512 KB 16-Way Associative ECC-Protected Level 2 Cache
AMD Athlon™ 64 X2 Dual-Core Processor
2 x 64KB 2-Way Associative ECC-Protected Level 1 Data Cache
2 x 64KB 2-Way Associative Parity-Protected Level 1 Instruction Cache
2 x 1 MB 16-Way Associative ECC-Protected Level 2 Cache

System Memory

Four 240-pin DDR2 800/667/533 SDRAM Memory
Unbuffered ECC and non-ECC DIMMs
Dual Channel Memory Architecture
256 MB, 512 MB, 1 GB, and 2 GB DIMMs
Maximum Memory capacity of 8 GB

System Management

AMD Cool and Quiet™ Technology
nVidia® Unified Stable Image
nVidia® ForceWare® Unified Driver Architecture (UDA)
Fan Status/temperature Monitoring and Alert
Auto Throttling of CPU fan in Suspend Mode to Save Power
Auto Slow-down of CPU When Overheating is Detected
Power Supply Voltage Monitoring and Alert
Chassis Intrusion Alarm
System Resources: Memory & Hard Disk Drive Utilization Monitoring & Alert
Wake-On-LAN and Wake-On-Ring support

Integrated PCI IDE

Two Independent IDE Channels via nVidia® nForce™ 430 MCP
Supports 4 IDE and EIDE Devices
Supports PIO Modes 3 & 4 (17 MB/sec maximum)
Supports Bus Master 8237-style DMA Mode (16 MB/sec maximum)
Supports Bus Master Ultra DMA/33 (33 MB/sec maximum)
Supports Bus Master Ultra DMA/66 (66 MB/sec maximum)
Supports Bus Master Ultra DMA/100 (100 MB/sec maximum)
Supports Bus Master Ultra DMA/133 (133 MB/sec maximum)
ATAPI CD-ROM Supported

Integrated SATA/RAID

Four Independent Serial ATA Channels
Supports Four Serial ATA Devices
Supports 3 GB/sec Maximum (SATA-10 Specification)
nVidia® MediaShield™ Storage Technology via nVidia® nForce™ 430 MCP
Supports RAID 0, RAID 1, RAID 0+1, RAID 5, or JBOD

Integrated Video

nVidia® Quadro® NVS 210S Graphics Processor
nVidia® PureVideo™ Technology
One VGA and One DVI Connector

Integrated Audio

Integrated 6-Channel (5.1) High Definition Audio Subsystem
nVidia® nForce™ 430 MCP
Analog Devices SoundMAX® AD1986A Audio CODEC w/ Universal Jacks™ Functionality
Front Panel Connectors: Line Out /Retasking Jack, and Microphone In /Retasking Jack
Back Panel Connectors: Line In/Retasking Jack, Line Out/Retasking Jack, and Microphone In/Retasking Jack

Integrated Gigabit

nVidia® nForce™ Networking Subsystem via nVidia® nForce™ 430 MCP
nVidia® Gigabit Media Access Control (MAC)
Marvell Yukon Gigabit Ethernet Controller PHY

Integrated Super I/O

Floppy Controller for Mode 3 Support
One PS/2 Keyboard Port and One PS/2 Mouse Port
One ECP/EPP Parallel Port
Eight USB 2.0 Ports
Two Rear Dual Stack, One Front Dual Stack, and Two via Internal Headers (Optional)
One RJ-45 Port

Security & Encryption

Trusted Platform Module (TPM) v1.2
Protects Encryption and Signature Keys and Supports Attestation

Expansion Slots

Two 32-bit PCI, One PCI-Express x16, and One PCI-Express x1

Bus Architecture

PCI, PCI Express x16, and PCI Express x1

Housing Configuration

Black Thermally Advantaged MicroTower Chassis

Dimensions (d) x (w) x (h) cm/inch

35.18 x 17.98 x 36.50 / 13.85 x 7.08 x 14.37

Drive Bays

5.25 inch External	2
3.5 inch External	2
3.5 inch Internal	1

Power Supply Features

Input Voltage	100-240 VAC
Input Frequency	50/60 Hz
Input Currents	3.0 A / 8.0 A
Device Power Connectors	4 for 5.25" and 1 for 3.5" Devices
Green PC	EEF Energy Efficient PC
Maximum Output	270 Watts
Form Factor	µATX
Soft Power Switch	DC On/Off via TTL Signal

Environmental

Operating Temperature:	0° to 35° C / 32° to 95° F
Storage Temperature:	-40° to 70° C / -42° to 158° F
Relative Humidity:	92% RH @ 36° C / 97° F
Airflow Requirements:	100 LFM

Regulatory & Product Certifications

EMI/RFI:	FCC Declaration of Conformity (DoC)
Safety:	Underwriter Laboratories 60950, 3rd Edition
EPA:	Energy Star Compliant

Options

80 mm Cooling Fan	2
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NCS Technologies, Inc.

9490 Innovation Drive Voice: (703) 621-1700
Manassas, VA 20110 Toll-Free: 1 (888) RING-NCS
www.ncst.com Fax: (703) 621-1701

